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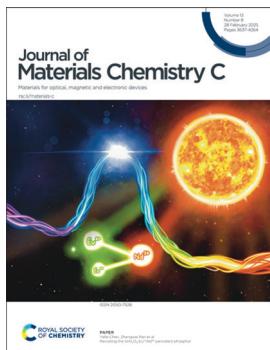
Materials for optical, magnetic and electronic devices

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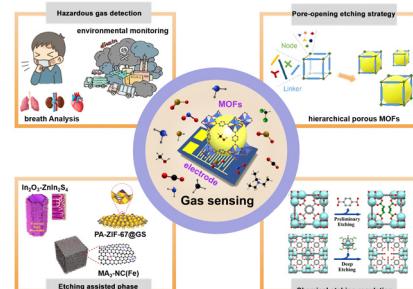
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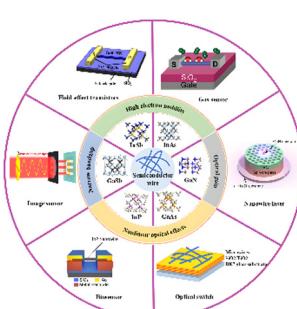
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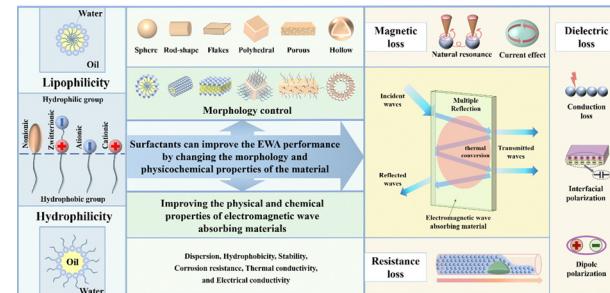
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Research progress on the application of surfactants in superior electromagnetic wave absorbers

Zhengtang Su, Chao Chen, Yuhang Long, Gang Chen,* Wei Cai,* Rongli Gao and Fei Chen

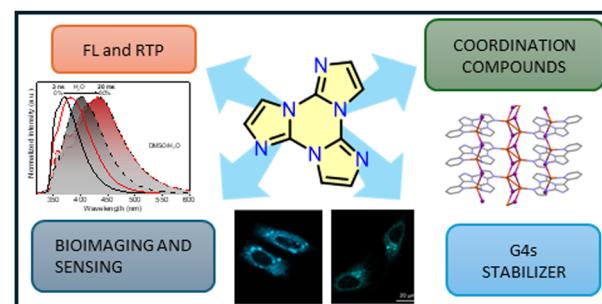


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Alessandra Forni, Daniele Malpicci, Daniele Maver, Elena Lucenti and Elena Cariati*

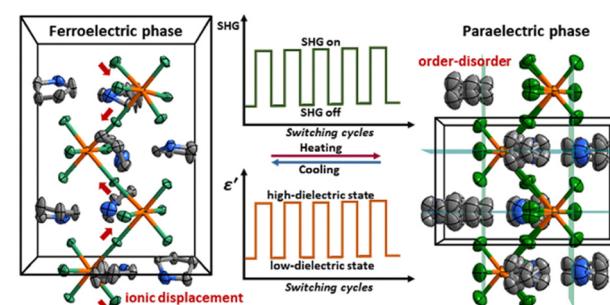


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Qian-Jun Gu, Yu-Qiao Tong, Shi-Qing Yin, Ping Wang, Peng-Peng Gong, Ya-Juan Li, Yue Fang, Yang Zhao and Bo Huang*

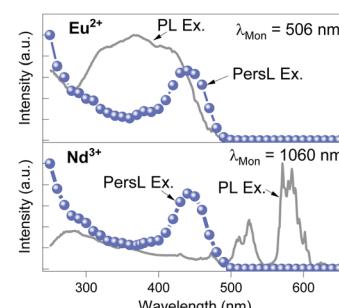


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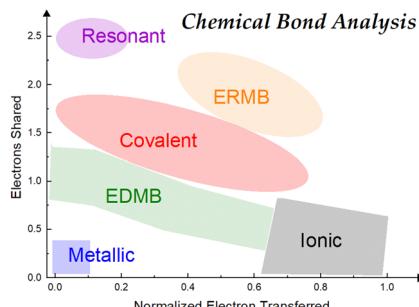
Revisiting the $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+},\text{Nd}^{3+}$ persistent phosphor

Rola Kuban, Yafei Chen* and Zhengwei Pan*



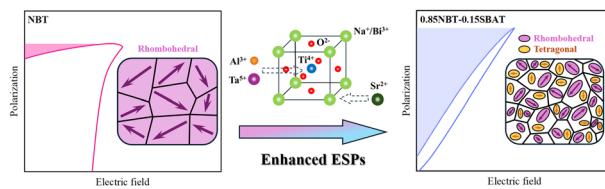
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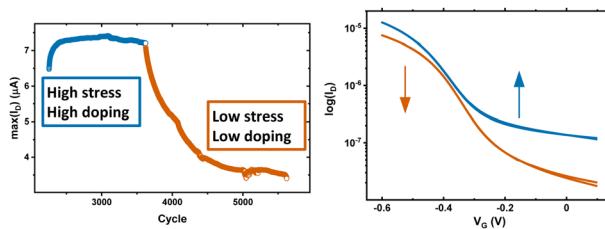
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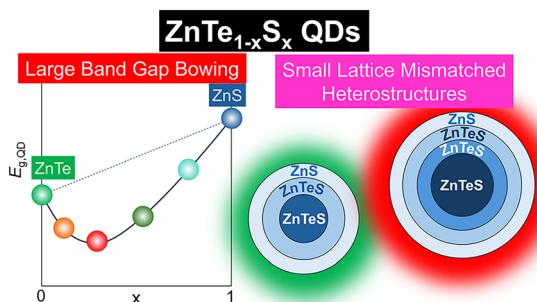
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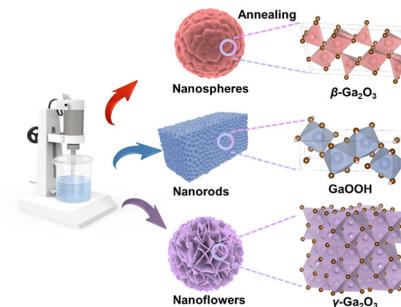


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Ultrasonication-assisted synthesis of morphology-controlled gallium oxide nanoparticles for high-performance photoelectronic device applications

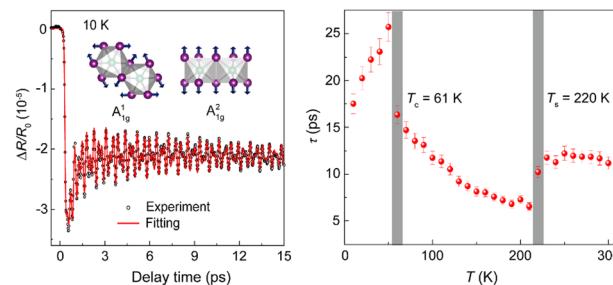
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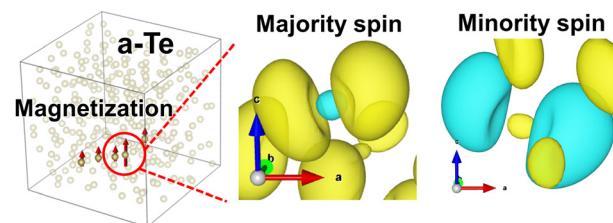
Chunyang Gou, Junyuan Zhang, Yang Mi* and S. N. Luo



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Intrinsic magnetism in semiconducting bulk amorphous tellurium

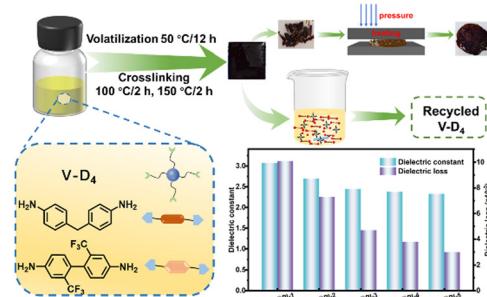
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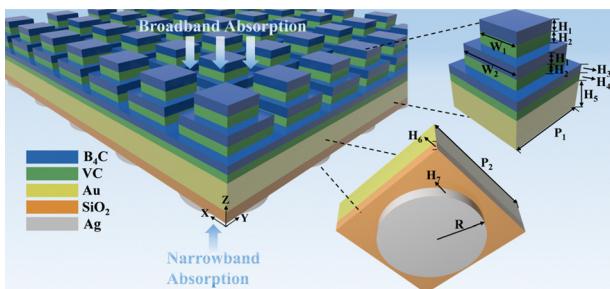
Vanillin-grafted organosilicon backbone polyimide resins with low dielectric, reprocessing and monomer recovery properties

Guoming Yuan, Hui Yang, Zhijun Liu, Yuemiao Zhang, Yanhan Tao, Bo Yang, Kun Wu,* Jun Shi and Li Yang



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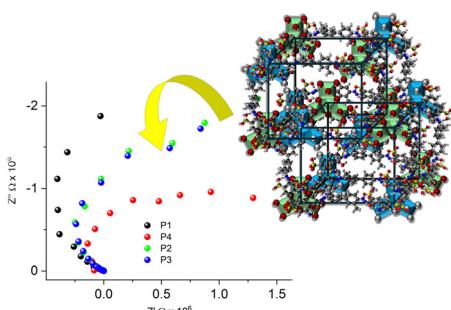
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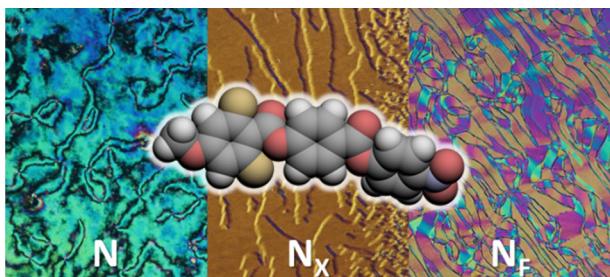
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Mixed metal conductive MOFs constructed from Trypan blue linked metal nodes: characteristic features and electrochemical performance

Shubhangi Shukla, Naveen Narasimhachar Joshi, Sachin Kadian, Siba Sundar Sahoo and Roger J. Narayan*

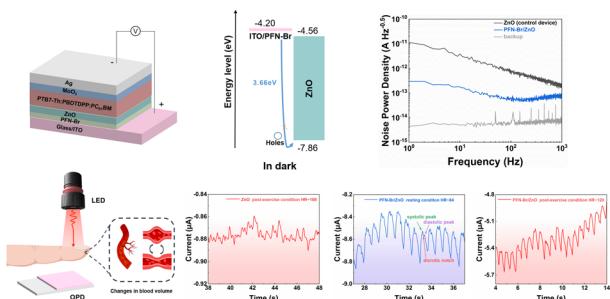
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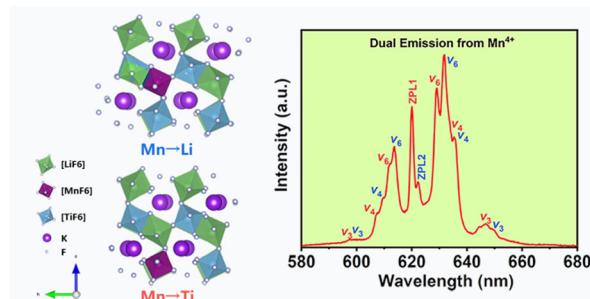


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Enhanced chromaticity and dual emission in double-site Mn^{4+} -activated $KLiTiF_6$ red phosphors for wide color gamut displays

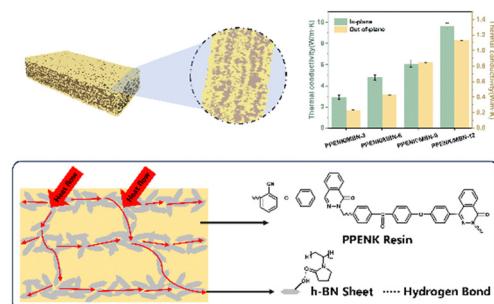
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Research on high thermal conductivity PPENK/PVP modified BN electrospinning hot-pressed multifunctional nanocomposite films

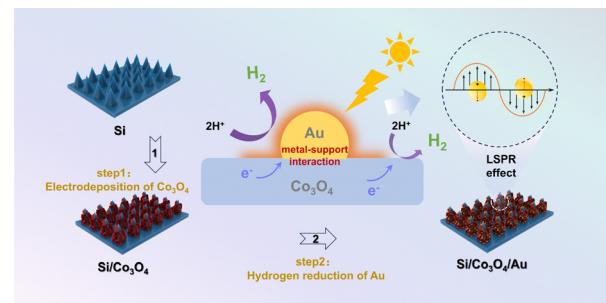
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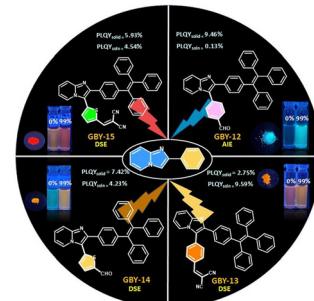
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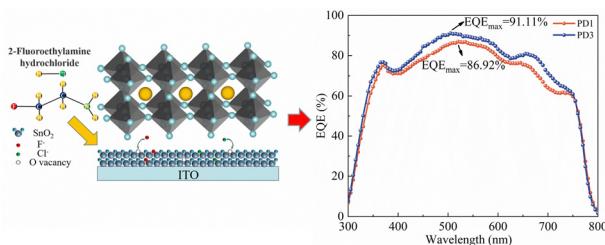
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Gauravi Yashwantrao, Prajakta Gosavi, Vaishnavi Naik, Monalisha Debnath, Saona Seth, Purav Badani, Rohit Srivastava and Satyajit Saha*



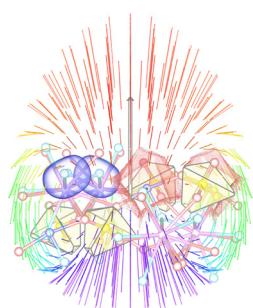
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**Defect passivation of SnO₂ doped with 2-FN for high-performance perovskite detectors**

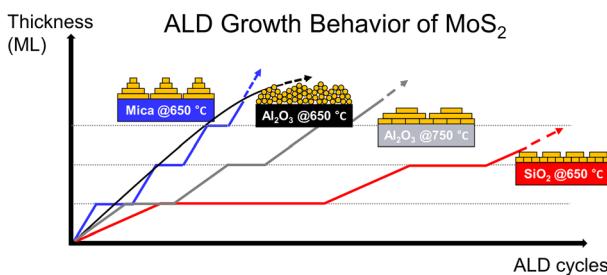
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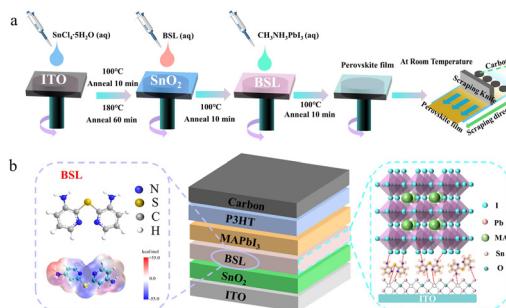
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Jiating Wang, Xinrui Gao, Yingjia Zhuansun, Decai Zhu, Jie Liu, Long Tang* and Qingbo Wei*

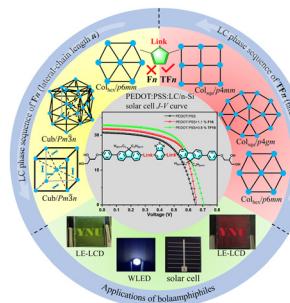


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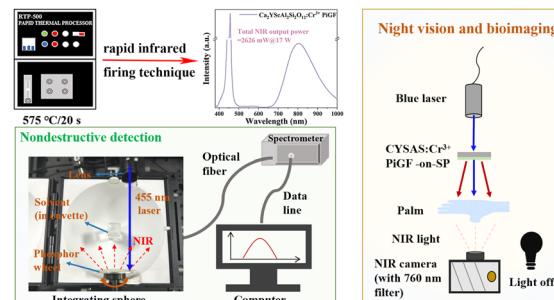
Shibo Chen, Haixia Wu, Zilong Guo, Qingqing Han, Jiaming Liu, Yu Yang* and Xiaohong Cheng*



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Ca₂YScAl₂Si₂O₁₂:Cr³⁺ phosphor-in-glass film for laser-driven high-power near-infrared lighting

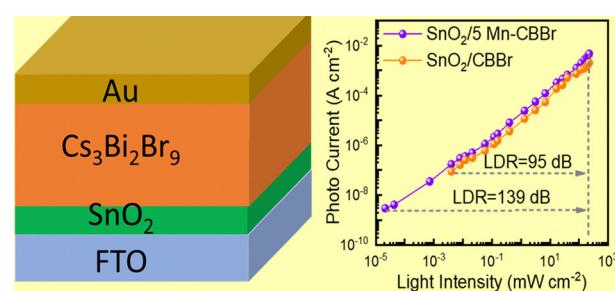
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High photodetector responsivity and weak light detection in a manganese doped lead-free low dimensional perovskite

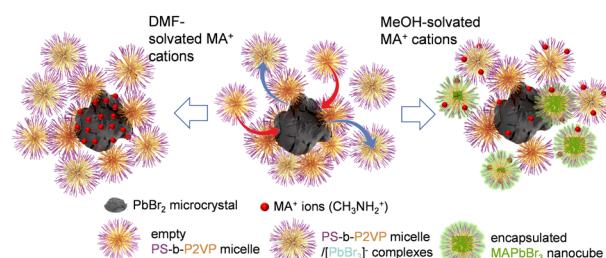
James Harry Martin, Zhirong Liu, Muhammed P. U. Haris, Luis Lezama, Mingkui Wang,* Shahzada Ahmad* and Samrana Kazim*



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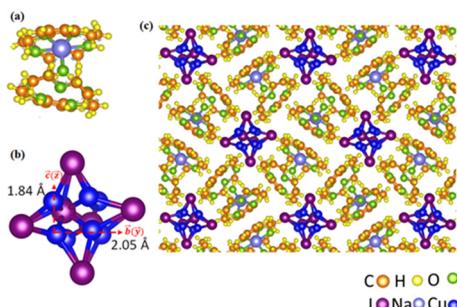
Room-temperature synthesis of highly luminescent methylammonium lead bromide nanocubes encapsulated in block copolymer micelles: impact of solvent choice on crystallization and stability

Belda Amelia Junisu, Ya-Sen Sun* and Bo-Cheng Zhao



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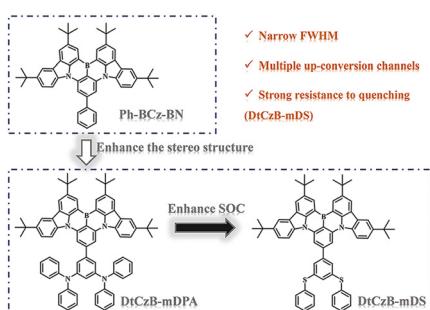
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Ultra broadband yellow emitting lead-free metal halide perovskite like compounds with near-unity emission quantum yields

Sayed Ali Khan,* Noor Zamin Khan, Jahangeer Ahmed, Marcin Runowski, Saad M Alshehri, Simeon Agathopoulos, Simon J. Teat and Jing Li*

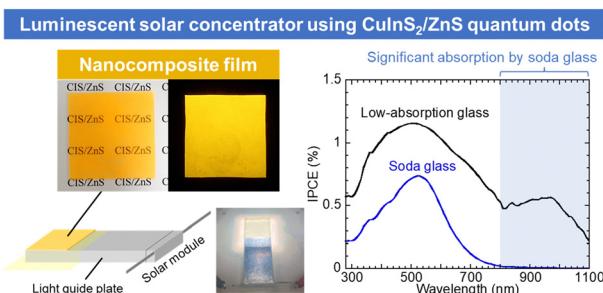
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Enhancing the stereo structure via bulky peripheral groups to improve resistance to concentration quenching in OLEDs

Haotian Yue, Yongxing Tian, Shan Huang, Hanrui Su, Hongbo Shao, Qiang Zhang, Runda Guo* and Lei Wang

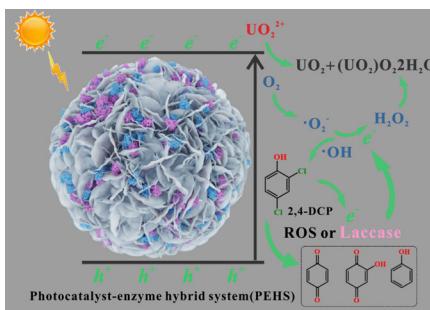
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Fabrication of CuInS₂/ZnS quantum dot nanocomposite films and investigation of their influence on performance of soda glass-based luminescent solar concentrators

Yu Imakiire, Yoshiki Iso* and Tetsuhiko Isobe*

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Immobilization of laccase on different functional groups and degree of conjugation modified COFs for simultaneous photochemical-enzymatic removal of 2,4-dichlorophenol and uranium (U^{vi})

Xin Zhong,* Zhehong Ji, Qian Ling, Lifu Sun and Baowei Hu

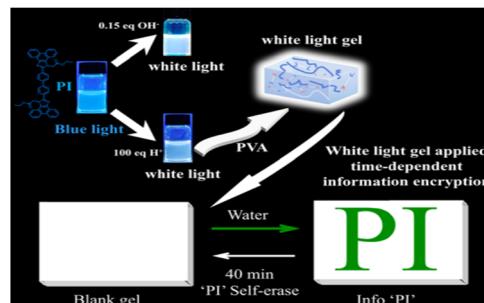


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Dual-channel regulation of a single white-light-emitting compound and its application in time-dependent information encryption

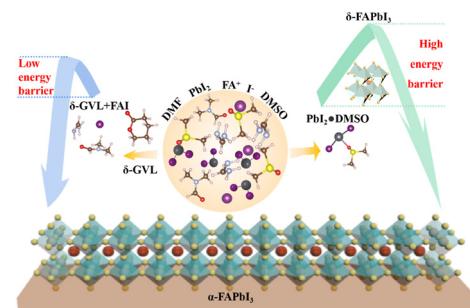
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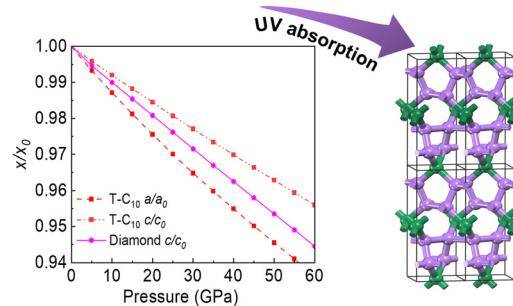
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A superhard and superdense carbon allotrope with all-sp³ bonded helical chains of five-membered rings

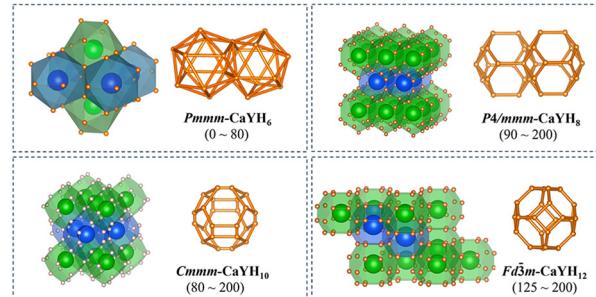
Yuan Tang, Meng Hu,* Wenyuan Zhang, Jiwei Pang, Mengdong Ma, Penghui Li, Julong He and Jianning Ding



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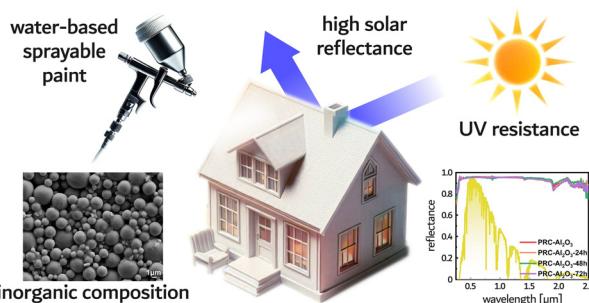
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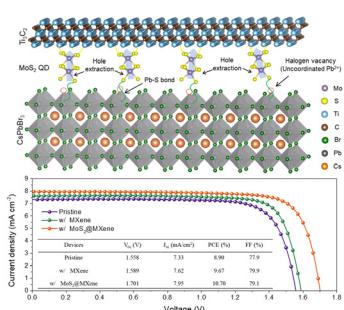
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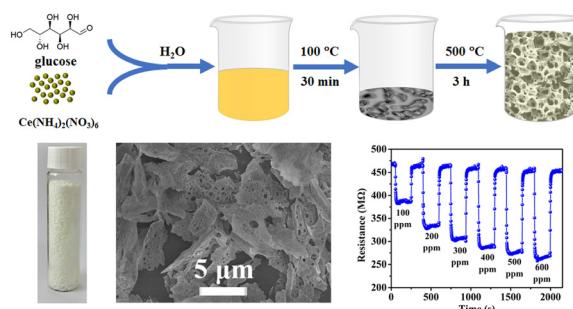
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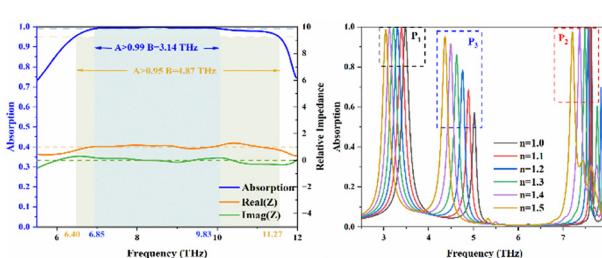
Qingwei Zhou,* Hansheng Li, Fan Wu, Dan Chen, Fang Luo, Chucai Guo* and Zhihong Zhu

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**A bubble-templating strategy to construct CeO₂ aerogels and their potential application for fast detection of acetone**

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Jiaran Xiong, Chao Li,* Dong Wang, Song Gao, Yue Che, Guozheng Wu and Mingyuan Guo

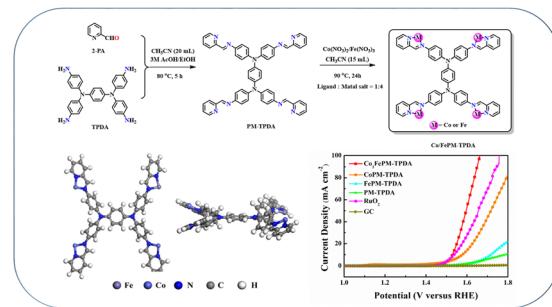


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Big pyridyl Schiff base π -conjugated skeleton based cobalt/iron metal complexes: bimetallic electrocatalysts for the oxygen evolution reaction

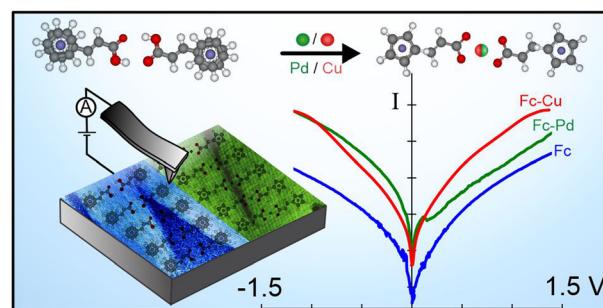
Yuwei Dong, Mingyu Wu, Yu Ren, Zhou Yu* and Zhen Zhao*



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Enhancing the electronic-coupling and conductivity of a monolayer film of ferrocenyl molecules by Pd and Cu doping

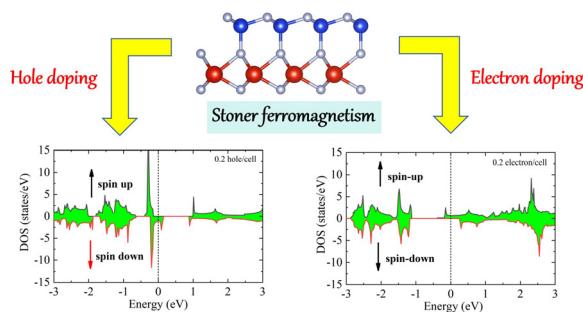
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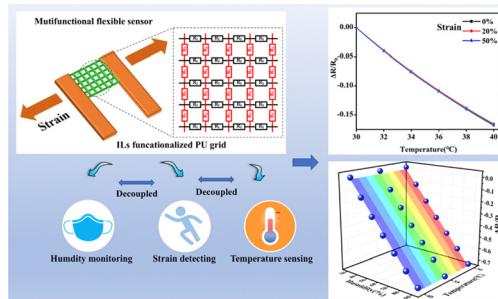
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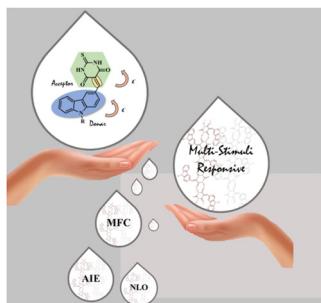
Topologically structured sensors with high linearity and dual-sensing signal decoupling

Huanyu Liu, Chengkai Luo, Yunhui Wu* and Xinxing Zhang



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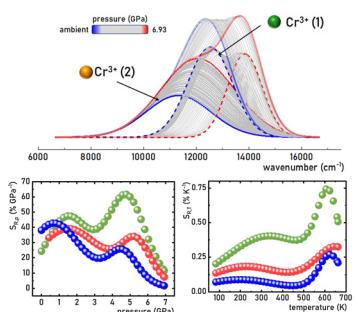
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Bend, don't break: exploring the mechanochromic, AIE and nonlinear optical properties of carbazole–thiobarbituric acid hybrids

Meema Rasheed, R. Lakshmi, Parvathy O.C., Shandev P.P., Pramod Gopinath* and Narayananpillai Manoj*

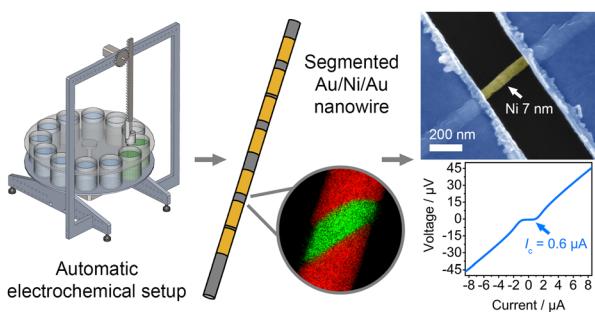
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Highly sensitive ratiometric luminescence manometers based on the multisite emission of Cr³⁺

M. Szymczak, W. M. Piotrowski, U. R. Rodríguez-Mendoza, P. Wozny, M. Runowski and L. Marciniak*

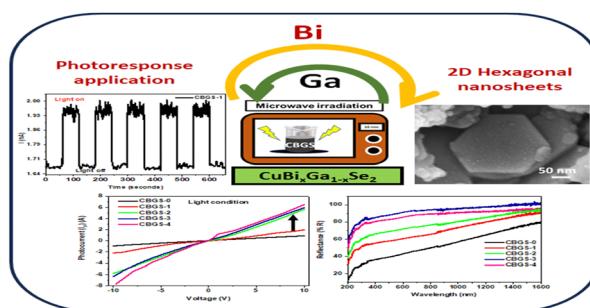
4236



Automated manufacturing of segmented nanowires with thin ferromagnetic layers: a step towards miniature SFS Josephson junctions

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2D hexagonal CuBi_xGa_{1-x}Se₂ nanosheets for a visible light photodetector

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